

IN THE CLAIMS:

The following is a complete listing of the claims, and replaces all earlier listings and versions:

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Claim 1 (currently amended): An information processing apparatus comprising:

~~forming means for forming predetermined image information;~~

~~a common printer driver module for providing a common processing for a printer connected to said information processing apparatus irrespective of the type of the connected printer;~~

~~a plurality of individual printer driver modules each for processing and forming said predetermined image information in accordance with characteristics of each output apparatus providing a different processing for a printer connected to said information processing apparatus depending on the type of the connected printer; and~~

~~means for switching said plurality of individual printer driver modules in accordance with a kind of said output apparatus the type of the connected printer and outputting the information processed and formed by the switched module to said output apparatus the connected printer.~~

Claim 2 (currently amended): An information processing apparatus comprising:

~~forming means for forming predetermined image information;~~

a common printer driver module for providing a common processing for a printer connected to said information processing apparatus irrespective of the type of the connected printer;

Q1 a plurality of individual printer driver modules each for processing and forming said predetermined image information in accordance with characteristics of each output apparatus providing a different processing for a printer connected to said information processing apparatus depending on the type of the connected printer; and

means for switching said plurality of individual printer driver modules in accordance with kind information of the output apparatus indicating the type of the connected printer obtained from said output apparatus the printer and outputting the information processed and formed by the switched module to said output apparatus the connected printer.

Claim 3 (currently amended):      An apparatus according to claim 1, wherein said modules ~~is a~~ are modules to form emission data for a waterproof reinforcement agent.

Claim 4 (currently amended):      An apparatus according to claim 1, wherein said modules ~~is a~~ are modules for offset transmitting the information in accordance with a head of the output apparatus.

Claim 5 (original):      An apparatus according to claim 1, wherein the

switching of said modules is executed when a driver program is installed.

9 Claim 6 (original): An apparatus according to claim 1, wherein the switching of said modules is executed when an image is outputted to the output apparatus.

Claim 7 (currently amended): An apparatus according to claim 1, wherein said individual printer driver modules are for use in forming predetermined information, and wherein the predetermined image information is quantized information.

Claim 8 (original): An apparatus according to claim 7, wherein said the quantized information includes binarized information.

Claim 9 (canceled)

Claim 10 (canceled)

Claim 11 (currently amended): A data processing method of using ~~a plurality of modules each for processing and forming predetermined image information in accordance with characteristics of each output apparatus~~ a common printer driver module for providing a common processing for a connected printer irrespective of the type of the connected printer, and a plurality of individual printer driver modules each for providing a different processing for a

connected printer, comprising the steps of:

switching ~~said~~ the plurality of individual printer driver modules in accordance with ~~a kind of said output apparatus~~ the type of the connected printer; and outputting ~~the~~ information processed ~~and formed~~ by the switched module to ~~said output apparatus~~ the connected printer.

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Claim 12 (currently amended): A data processing method of ~~using a plurality of modules each for processing and forming predetermined image information in accordance with characteristics of each output apparatus~~ a common printer driver module for providing a common processing for a connected printer irrespective of the type of the connected printer and a plurality of individual printer driver modules for each providing a different processing for a connected printer depending on the type of the connected printer, comprising the steps of:

switching ~~said~~ the plurality of individual printer driver modules in accordance with ~~kind information of the output apparatus~~ indicating the type of the connected printer obtained from ~~said output apparatus~~ the connected printer; and outputting ~~the~~ information processed ~~and formed~~ by the switched module to ~~said output apparatus~~ the connected printer.

Claim 13 (currently amended): A method according to claim 11, wherein ~~said the modules is a~~ are modules to form emission data for a waterproof reinforcement agent.

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Claim 14 (currently amended): A method according to claim 11, wherein ~~said the modules is a~~ are modules for offset transmitting the information in accordance with a head of the output apparatus.

Claim 15 (currently amended): A method according to claim 11, wherein the switching of ~~said the modules~~ is executed when a driver program is installed.

Claim 16 (currently amended): A method according to claim 11, wherein the switching of ~~said the modules~~ is executed when an image is outputted to the output apparatus.

Claim 17 (currently amended): A method according to claim 11, wherein said the individual printer driver modules are for use in forming predetermined information, and wherein the predetermined image information is quantized information.

Claim 18 (currently amended): A method according to claim 17, wherein ~~said the~~ quantized information includes binarized information.

Claim 19 (canceled)

Claim 20 (currently amended): A method according to claim 11, wherein ~~said output apparatus~~ the connected printer is an ink jet printer.

Claim 21 (currently amended): An information processing system comprising an information processing apparatus according to Claim 1 and the output apparatus connected printer.

Q Claim 22 (currently amended): A computer readable memory medium in which a program using ~~a plurality of program modules each for processing and forming predetermined image information in accordance with characteristics of each output apparatus has been stored~~ a common printer driver module for providing a common processing for a connected printer irrespective of the type of the connected printer, and a plurality of individual printer driver modules each for providing a different processing for a connected printer, wherein said program comprises the steps of:

switching ~~said the plurality of individual printer driver modules in accordance with kind information of the output apparatus indicating the type of the connected printer obtained from said output apparatus~~ the connected printer; and

outputting ~~the information processed and formed by the switched module to said output apparatus~~ the connected printer.

Claim 23 (currently amended): A computer readable memory medium in which a program using ~~a plurality of program modules each for processing and forming predetermined image information in accordance with characteristics of each output apparatus has been stored~~ a common printer driver module for providing a common processing for a connected

printer irrespective of the type of the connected printer and a plurality of individual printer driver modules for each providing a different processing for a connected printer depending on the type of the connected printer, wherein said program comprises the steps of:

switching ~~said~~ the plurality of individual printer driver modules in accordance with ~~kind information of the output apparatus~~ indicating the type of the connected printer obtained from ~~said output apparatus~~ the connected printer; and

outputting ~~the information processed and formed by the switched module to said output apparatus~~ the connected printer.

Claim 24 (currently amended): A medium according to claim 22, wherein said program modules ~~is a~~ are program modules to form emission data for a waterproof reinforcement agent.

Claim 25 (currently amended): A medium according to claim 22, wherein said program modules ~~is a~~ are program modules for offset transmitting the information in accordance with a head of the output apparatus.

Claim 26 (original): A medium according to claim 22, wherein the switching of said program modules is executed when a driver program is installed.

Claim 27 (currently amended): A medium according to claim 22,

wherein the switching of said program modules is executed when an image is outputted to the ~~output apparatus~~ connected printer.

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Claim 28 (currently amended): A medium according to claim 22,  
wherein said individual printer driver modules are for use in forming predetermined information,  
and wherein the predetermined image information is quantized information.

Claim 29 (currently amended): A medium according to claim 28,  
wherein ~~said~~ the quantized information includes binarized information.

Claim 30 (canceled)

Claim 31 (currently amended): An information processing apparatus  
comprising:  
memory means ~~for storing a printer driver program constructed by a~~  
~~first module for forming image data and a second module to perform processes according to~~  
~~characteristics of a printer to the image data formed by said first module~~ a common printer  
module for providing a common processing for a connected printer irrespective of the type of the  
connected printer and a plurality of individual printer driver modules each for providing a  
different processing for a connected printer depending on the type of the connected printer;  
executing means for executing the printer driver program stored in said



memory means.

Claim 32 (currently amended): An apparatus according to claim 31, wherein said ~~second~~ individual printer modules each includes a module for forming pattern data for a waterproof reinforcement agent on the basis of the image data formed by said first common printer module and transmitting ~~said the~~ formed pattern data for the waterproof reinforcement agent and ~~said the~~ image data to the printer.

Q1 Claim 33 (currently amended): An apparatus according to claim 31, wherein said ~~second~~ individual printer modules each includes for offset transmitting the image data formed by said first common printer module in accordance with a head in which recording elements as many as a plurality of colors are arranged in a paper feeding direction of ~~said the~~ connected printer.

Claim 34 (currently amended): An apparatus according to claim 33, wherein said ~~second~~ individual printer modules each includes a control module for controlling the offset transmission when data for a longitudinal paper is printed by ~~said the~~ connected printer.

Claim 35 (original): An apparatus according to claim 34, wherein said control module includes a module for setting a raster position of a reference color to "0" at a

timing of a new page of the reference color and setting raster positions of the other colors to minus values.

Claim 36 (currently amended): A method of forming a printer driver program, comprising the steps of:

forming ~~a first module to form image data~~ a common printer driver module for providing a common processing for a connected printer irrespective of the type of the connected printer; and

forming ~~a second module to perform processes according to characteristics of a printer to the image data formed by said first module~~ a plurality of individual printer driver modules each for providing a different processing for a connected printer depending on the type of the connected printer.

Claim 37 (currently amended): A method according to claim 36, wherein ~~said second~~ the individual printer modules each includes modules for forming pattern data for a waterproof reinforcement agent on the basis of the image data formed by ~~said first~~ the common printer module and transmitting ~~said the~~ formed pattern data for the waterproof reinforcement agent and ~~said the~~ image data to the connected printer.

Claim 38 (currently amended): A method according to claim 36, wherein ~~said second~~ the individual printer modules each includes a module for offset transmitting the

image data formed by ~~said first~~ the common printer module in accordance with a head in which recording elements as many as a plurality of colors are arranged in a paper feeding direction of ~~said~~ the connected printer.

Q1 Claim 39 (currently amended): A method according to claim 38, wherein ~~said second~~ the individual printer modules each includes a control module for controlling the offset transmission when data for a longitudinal paper is printed by ~~said~~ the connected printer.

Claim 40 (original): A method according to claim 39, wherein said control module includes a module for setting a raster position of a reference color to "0" at a timing of a new page of the reference color and setting raster positions of the other colors to minus values.

Claim 41 (currently amended): A memory medium in which a printer driver program which is executed by a computer ~~has been~~ is stored, wherein said program comprises:

~~a first module to form image data~~ a common printer driver module for providing a common processing for a connected printer irrespective of the type of the connected printer; and

~~a second module to perform processes according to characteristics of a printer to the image data formed by said first module~~ a plurality of individual printer driver modules each for providing a different processing for a connected printer depending on the type of the connected printer.

61  
Claim 42 (currently amended): A medium according to claim 41,  
wherein said ~~second~~ individual printer modules each includes a module for forming pattern data  
for a waterproof reinforcement agent on the basis of the image data formed by said ~~first~~ common  
printer module and transmitting said formed pattern data for the waterproof reinforcement agent  
and said image data to the printer.

Claim 43 (currently amended): A medium according to claim 41,  
wherein said ~~second~~ the individual printer modules each includes a module for offset  
transmitting the image data formed by said first module in accordance with a head in which  
recording elements as many as a plurality of colors are arranged in a paper feeding direction of  
said the printer.

Claim 44 (currently amended): A medium according to claim 43,  
wherein said ~~second~~ the individual printer modules each includes a control module for  
controlling the offset transmission when data for a longitudinal paper is printed by said the  
printer.

Claim 45 (original): A medium according to claim 44, wherein said control  
module includes a module for setting a raster position of a reference color to "0" at a timing of a  
new page of the reference color and setting raster positions of the other colors to minus values.

Claim 46 (original): An apparatus according to claim 31, wherein said processes include a working process or a transmitting process.

Claim 47 (original): A method according to claim 36, wherein said processes include a working process or a transmitting process.

Claim 48 (original): A method according to claim 41, wherein said processes include a working process or a transmitting process.

Claim 49 (currently amended): An apparatus according to claim 31, further comprising printing means for printing on the basis of the print data which is outputted from said printer driver modules.

Claim 50 (original): An apparatus according to claim 49, wherein said printing means includes an ink jet printer.

Claim 51 (newly added): A program product, including a program using a common printer driver module for providing a common processing for a connected printer irrespective of the type of the connected printer, and a plurality of individual printer driver modules each for providing a different processing for a connected printer, wherein said program comprises the steps of:

switching the plurality of individual printer driver modules in accordance with information indicating the type of the connected printer obtained from the connected printer; and

outputting information processed by the switched module to the connected printer.

01 Claim 52 (newly added): A program product including a program using a common printer driver module for providing a common processing for a connected printer irrespective of the type of the connected printer and a plurality of individual printer driver modules for each providing a different processing for a connected printer depending on the type of the connected printer, wherein said program comprises the steps of:

switching the plurality of individual printer driver modules in accordance with information indicating the type of the connected printer obtained from the connected printer; and

outputting information processed by the switched module to the connected printer.

Claim 53 (newly added): A program product including a printer driver program which is executed by a computer, wherein said program comprises:

a common printer driver module for providing a common processing for a connected printer irrespective of the type of the connected printer; and

Q1 a plurality of individual printer driver modules each for providing a different processing for a connected printer depending on the type of the connected printer.

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